| Index o   | f Claims | •                           | Applic | ation | /Control No. | Applicant(s)/Patent und Reexamination |          |  |  |  |  |
|-----------|----------|-----------------------------|--------|-------|--------------|---------------------------------------|----------|--|--|--|--|
|           |          |                             | 10/593 | 3,384 | ļ.           | LALVANI, AJIT                         |          |  |  |  |  |
|           |          |                             | Exami  | ner   |              |                                       | Art Unit |  |  |  |  |
|           |          |                             | Rodne  | ∍у Р. | Swartz       |                                       | 1645     |  |  |  |  |
|           |          |                             |        |       |              |                                       |          |  |  |  |  |
| √ Rejecte | -d       | (Through numer<br>Cancelled | ral)   | N     | Non-Elected  | Α                                     | Appeal   |  |  |  |  |

| Cla         | aim      | Date       |                         |          |   |              |  | Cla             | aim      | Date     |          |          |   |  |                 |          |          |          | Cla      | Date     |          |          |          |          |                 |          |   |           |           |          |              |   |
|-------------|----------|------------|-------------------------|----------|---|--------------|--|-----------------|----------|----------|----------|----------|---|--|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|----------|---|-----------|-----------|----------|--------------|---|
|             |          |            |                         |          |   |              |  |                 |          |          |          |          |   |  |                 |          | $\Box$   | $\Box$   | T        |          | 1        |          | _        |          |                 |          |   |           |           | $\Box$   |              |   |
| Final       | Original | 9-12-11    |                         |          |   |              |  |                 |          |          | <u> </u> | Original |   |  |                 |          |          |          |          |          |          | <u>ख</u> | Original |          |                 |          |   |           |           |          |              |   |
| <u>i</u>    | rig      | 12         |                         |          |   |              |  |                 |          |          | Final    | Ī.       |   |  |                 |          |          |          |          |          |          | Final    | rig      |          |                 |          |   |           |           |          |              |   |
|             | 0        | ص<br>ا     |                         |          |   |              |  |                 |          |          |          | 0        |   |  |                 |          |          |          |          |          |          |          | 0        |          |                 |          |   |           |           |          |              |   |
|             | 1        |            | Н                       |          |   |              |  |                 |          | _        |          | 51       |   |  |                 | $\dashv$ | _        | _        | _        | $\dashv$ | ┪        |          | 101      |          | $\Box$          | $\dashv$ |   | $\neg$    |           | $\neg$   |              |   |
|             | 2        | =          | H                       |          |   |              |  | H               |          | -        |          | 52       |   |  |                 | _        | -        | +        | 7        |          | +        |          | 102      |          | H               |          |   |           |           | _        |              |   |
|             | 3        | =          | Н                       |          |   | $\vdash$     | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ |          | 53       | Н   |  | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ┨        |          | 103      |          | $\vdash$        | $\dashv$ |   | $\dashv$  |           | $\dashv$ | $\dashv$     |   |
| <del></del> | 4        | ▐ <u>▔</u> | $\vdash$                | -        | _ | ┝            | ⊢  | Н               | $\dashv$ | $\dashv$ |          | 54       | ⊢   | -  | $\dashv$        | ᅱ        | ᅱ        | ┽        | ┪        |          | -        | -        | 104      | _        | $\vdash$        | $\dashv$ | _ | $\dashv$  | -         | ᆉ        | -            | _ |
|             | 5        | ▐▔         | $\vdash$                |          |   |              |  | $\vdash$        | -        |          | -        | 55       |   |  |                 | $\dashv$ | -        | $\dashv$ | $\dashv$ | -        | ┥        | -        | 105      |          | $\vdash$        | -        |   | $\dashv$  |           | $\dashv$ | -            |   |
|             | 6        | -          | $\vdash$                | -        |   | $\vdash$     | $\vdash$   | Н               | $\dashv$ | $\dashv$ |          | 56       | Н   | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | ┥        | $\vdash$ | 106      |          | $\vdash$        | $\dashv$ |   | $\dashv$  |           | $\dashv$ | -            | _ |
|             | 7        | =          | Н                       | -        |   | $\vdash$     | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ |          | 57       | Н   | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ┨        |          | 107      |          | $\vdash$        | $\dashv$ |   | $\dashv$  |           | $\dashv$ | $\dashv$     |   |
| _           | 8        | ▐▔         | $\vdash$                | -        | _ | <del> </del> | ⊢  | Н               | $\dashv$ | $\dashv$ |          | 58       | ⊢   | $\vdash$   | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$ | -        | 108      | _        | H               | $\dashv$ |   | $\dashv$  | -         | $\dashv$ |              |   |
|             | 9        | _          | $\vdash$                | -        | _ |              |  | Н               | $\dashv$ | -        |          | 59       |   | _  | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | -        | -        |          | _        | H               | -        |   | $\dashv$  | -         | ᅪ        | -            |   |
|             |          | ╚          | ┦                       | -        | _ | <u> </u>     | ⊢  | $\vdash$        | $\dashv$ |          |          |          | $\vdash$  | ⊢  | Н               | ᅱ        | ᅱ        | +        | -        | -        | ┥        | _        | 109      | _        |                 | $\dashv$ | _ | $\dashv$  | -         | ᅪ        | -            | _ |
|             | 10       | =          | $\vdash$                | _        |   |              |  | $\vdash$        | -        |          |          | 60       |   |  |                 | -        | -        | +        | -        |          | 4        | _        | 110      |          | Н               | _        |   | $\dashv$  |           | -        |              |   |
| <u> </u>    | 11       | 트          | $\mid \rightarrow \mid$ | =        | _ | <u> </u>     | $\vdash$   | $\vdash \vdash$ | $\dashv$ | _        |          | 61       | $\vdash$  | $\vdash$   | $\vdash \vdash$ | 4        | -        | $\dashv$ | $\dashv$ | _        | 4        |          | 111      | <u> </u> | $\sqcup$        | _        |   | $\square$ | $\square$ | 4        | _            |   |
|             | 12       | =          | Н                       |          |   | $\vdash$     | L  | $\vdash$        | $\dashv$ | _        |          | 62       | $\vdash$  | $\vdash$   | Ш               | 4        | 4        | 4        | $\dashv$ | $\dashv$ | 4        |          | 112      |          | $\sqcup$        | _        |   | $\square$ |           | _        |              |   |
|             | 13       | =          | $\sqcup$                | _        |   | <u> </u>     | Щ  | $\square$       | _        | _        |          | 63       | $\vdash$  | $ldsymbol{ldsymbol{\sqcup}}$   | Ш               | _        | _        | _        | $\dashv$ |          | 4        |          | 113      |          | Ш               | _        |   | $\Box$    | Ш         | _        |              |   |
|             | 14       | <u> </u>   | Щ                       | _        |   | $\vdash$     | lacksquare                                       | Щ               |          | _        | <u> </u> | 64       | $\vdash$  | ldash  | Ш               | _        | _        | 4        | _        |          | 4        | <u> </u> | 114      |          | Щ               | _        |   | Щ         | Ш         | _        |              |   |
|             | 15       | ᆂ          | $\sqcup$                | _        |   | _            |  | Щ               | _        | _        |          | 65       | ldash   | $ldsymbol{ld}}}}}}$ | Ш               | _        | _        | _        | _ļ       |          | _        | $\vdash$ | 115      | L        | Щ               |          |   | Щ         | Щ         | _        |              |   |
|             | 16       | =          | Щ                       |          |   | $oxed{oxed}$ | Щ  | Щ               | $\Box$   | _        | <u> </u> | 66       | oxdot   | Щ  | Щ               |          |          | _        | $\dashv$ |          | 4        | $\vdash$ | 116      |          | Ш               |          |   | Ш         |           | _        |              |   |
|             | 17       | =          | Ш                       |          |   | $oxed{oxed}$ | Щ  |                 |          |          | <u> </u> | 67       |   |  | Ш               |          |          | _        | _        | $\perp$  | 4        | igsquare | 117      |          | Ш               |          |   |           |           | ļ        |              |   |
|             | 18       | =          | Ш                       |          |   | $\Box$       |  | Ш               |          |          |          | 68       | $oxedsymbol{oxed}$  | $oxedsymbol{oxed}$   | Ш               |          |          |          | $\perp$  |          | ┙        |          | 118      |          | Ш               |          |   |           |           |          |              |   |
|             | 19       | =          |                         |          |   |              |  | $\Box$          |          |          |          | 69       | $\Box$  |  |                 |          |          |          |          |          | ┙        |          | 119      |          | Ш               |          |   |           |           |          |              |   |
|             | 20       | =          |                         |          |   |              |  |                 |          |          |          | 70       |   |  |                 |          |          |          | ┚        |          | _]       |          | 120      |          |                 |          |   |           |           |          |              |   |
|             | 21       | =          |                         |          |   |              |  |                 |          |          |          | 71       |   |  |                 |          |          |          | J        |          | _]       |          | 121      |          |                 |          |   |           |           | $\Box$   |              |   |
|             | 22       |            |                         |          |   |              |  |                 |          |          |          | 72       |   |  |                 |          |          |          | $\Box$   |          |          |          | 122      |          |                 |          |   |           |           |          |              |   |
|             | 23       |            |                         |          |   |              |  |                 |          |          |          | 73       |   |  |                 |          |          |          | T        |          |          |          | 123      |          |                 |          |   |           |           |          |              |   |
|             | 24       |            | П                       |          |   |              |  |                 |          | $\neg$   |          | 74       |   |  |                 | $\neg$   | $\neg$   | $\neg$   | ╛        |          | 7        |          | 124      |          | П               |          |   |           |           | $\neg$   |              |   |
|             | 25       |            |                         |          |   |              | Π  |                 |          | 7        |          | 75       |   |  |                 |          |          | $\dashv$ | $\dashv$ |          | 7        |          | 125      |          | $\Box$          |          |   |           |           | $\neg$   |              |   |
|             | 26       | Π          | $\Box$                  |          |   |              | П  |                 | $\neg$   | $\neg$   |          | 76       |   |  |                 | $\neg$   | ヿ        | 寸        | ヿ        | $\neg$   | 7        |          | 126      |          | П               | $\neg$   |   | $\Box$    |           | ヿ        | $\Box$       |   |
|             | 27       | $\vdash$   | -                       |          |   |              | П  | $\Box$          |          | ヿ        |          | 77       | П   |  |                 | $\neg$   | 寸        | 寸        | 寸        | $\neg$   | ヿ        |          | 127      |          | $\sqcap$        | $\neg$   |   |           |           | 7        | T            |   |
|             | 28       | $\vdash$   | $\Box$                  | $\neg$   |   | $\vdash$     | Г  | П               |          | $\dashv$ |          | 78       | Г   | Т  | $\Box$          | $\neg$   | 寸        | ╅        | ヿ        | $\neg$   | ヿ        |          | 128      |          | $\Box$          |          |   | $\dashv$  | $\Box$    | $\dashv$ | T            |   |
|             | 29       | $\vdash$   | -                       |          |   |              | <del>                                     </del> | $\vdash$        | -        | $\dashv$ |          | 79       | ┢   | $\vdash$   | $\vdash$        | $\neg$   | $\dashv$ | $\dashv$ | 十        | -        | ┪        |          | 129      | -        | $\vdash$        |          |   | $\vdash$  | -         |          | -            | _ |
|             | 30       | $\vdash$   | H                       | $\neg$   |   |              |  | $\vdash$        | $\dashv$ | $\dashv$ |          | 80       | H   |  | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ╡        |          | 130      |          | H               | _        |   | $\dashv$  | $\vdash$  | $\dashv$ |              |   |
|             | 31       | $\vdash$   | -                       |          |   | -            | $\vdash$   | -               | -        | $\dashv$ | -        | 81       | ┢   | $\vdash$   | H               | -        | -        | 十        | ᅥ        |          | $\dashv$ | -        | 131      | -        | $\vdash$        | -        | - | $\vdash$  | $\vdash$  | -        |              | _ |
| $\vdash$    | 32       | $\vdash$   | -                       | $\neg$   | _ | $\vdash$     | $\vdash$   | -               | $\dashv$ | $\dashv$ | $\vdash$ | 82       | $\vdash$  | $\vdash$   | $\vdash$        | ᅱ        | ᆉ        | $\dashv$ | 十        | $\dashv$ | ┪        | $\vdash$ | 132      | $\vdash$ | $\vdash$        | -        | _ | $\dashv$  | $\vdash$  | 一        | <b>-</b>     | _ |
| <u></u>     | 33       | $\vdash$   | $\vdash$                | -        |   |              | $\vdash$   | $\vdash$        | _        | $\dashv$ | -        | 83       | Н   |  | $\vdash$        | $\neg$   | ᅱ        | ┪        | ᅥ        | $\dashv$ | -        |          | 133      |          | H               | -        | _ | -         |           | +        | <del>-</del> |   |
|             | 34       | $\vdash$   | H                       | =        |   | $\vdash$     |  | $\vdash$        | $\dashv$ | $\dashv$ | $\vdash$ | 84       | H   | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ┥        |          | 134      |          | $\vdash$        |          |   | $\vdash$  |           | $\dashv$ |              |   |
|             | 35       | $\vdash$   | $\vdash \vdash$         | $\dashv$ |   | $\vdash$     | $\vdash$   | $\vdash$        | $\vdash$ | $\dashv$ |          | 85       | Н   | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ┥        |          | 135      | $\vdash$ | $\vdash \vdash$ | -        |   | $\dashv$  | $\vdash$  | $\dashv$ | _            |   |
| -           | 36       | $\vdash$   | $\vdash \vdash$         |          |   | $\vdash$     | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ | -        | 86       | $\vdash$  | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | $\vdash$ | 136      | $\vdash$ | $\vdash$        | -        |   | $\vdash$  |           | $\dashv$ |              |   |
| -           | 37       | $\vdash$   | -                       | -        | - | -            | $\vdash$   | -               | -        | $\dashv$ | -        | 87       | $\vdash$  | -  | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | ┥        | -        | 137      | -        | -               | -        | _ | $\vdash$  | $\vdash$  | $\dashv$ |              | _ |
|             | 38       | $\vdash$   | $\mid - \mid$           | -        | — | -            | $\vdash$   | $\vdash$        | $\dashv$ |          | -        | 88       | $\vdash$  | $\vdash$   | $\vdash$        | $\dashv$ | -        | +        | -        |          | $\dashv$ | -        | 138      | _        | $\vdash$        | -        | _ | $\vdash$  | $\vdash$  | -        | -            | _ |
| -           |          | $\vdash$   | $\vdash \vdash$         | -        |   | $\vdash$     | $\vdash$   | $\vdash\vdash$  | $\dashv$ | $\dashv$ | -        |          | $\vdash$  | $\vdash$   | $\vdash\vdash$  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | $\vdash$ | 138      | <u> </u> | $\vdash$        | _        |   | $\vdash$  |           | $\dashv$ |              |   |
|             | 39       | $\vdash$   | $\vdash \vdash$         | _        |   | $\vdash$     | H  | $\vdash$        | -        | $\dashv$ | -        | 89<br>90 | $\vdash$  | H  | Н               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | $\vdash$ |          |          | Н               |          |   | $\vdash$  |           | $\dashv$ |              |   |
|             | 40       | $\vdash$   | $\vdash \vdash$         | -        |   | $\vdash$     | $\vdash$   | $\vdash$        | _        | $\dashv$ | -        |          | $\vdash$  |  | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\vdash$ | 140      | <u> </u> | $\vdash \vdash$ |          |   |           |           | $\dashv$ |              |   |
| <u> </u>    | 41       | $\vdash$   | $\vdash \vdash$         | _        |   | $\vdash$     | $\vdash$   | $\vdash \vdash$ |          | _        | -        | 91       | $\vdash$  | $\vdash$   | $\vdash \vdash$ | _        | $\dashv$ | $\dashv$ | $\dashv$ | +        | 4        |          | 141      | <u> </u> | $\sqcup$        |          |   | $\vdash$  | $\vdash$  | $\dashv$ |              |   |
| <u></u>     | 42       | $\vdash$   | $\vdash \vdash$         | _        |   | $\vdash$     | $\vdash$   | $\vdash \vdash$ |          | _        | <u> </u> | 92       | $\vdash$  | $\vdash$   | dash            | _        | $\dashv$ | $\dashv$ | $\dashv$ |          | 4        | $\vdash$ | 142      | <u> </u> | $\sqcup$        |          |   | $\vdash$  | Ш         | _        |              |   |
| <u> </u>    | 43       | <u> </u>   | $\vdash \vdash$         | _        |   | $\vdash$     | $\vdash$   | $\vdash \vdash$ | _        | _        | <u> </u> | 93       | $\vdash$  | $\vdash$   | $\vdash \vdash$ | _        | 4        | $\dashv$ | 4        | _        | 4        |          | 143      | <u> </u> | $\sqcup$        | _        |   | $\square$ | $\square$ | _        |              |   |
|             | 44       | <u> </u>   | Щ                       |          |   | $\vdash$     | $\vdash$   | $\sqcup$        | _        | _        | L        | 94       | $\vdash$  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$  | Ш               | _        | _        | $\dashv$ | $\dashv$ |          | 4        |          | 144      | _        | Ш               |          |   | Ш         |           | _        |              |   |
|             | 45       | _          | Ш                       |          |   |              | Щ  | Щ               |          |          |          | 95       | $\vdash$  | Ш  | Ш               | _        | _        | _        | _        |          | 4        | $\vdash$ | 145      |          | Ш               |          |   |           |           | _]       |              |   |
|             | 46       | _          | Ш                       |          |   | $oxed{oxed}$ | Ш  |                 |          | _        |          | 96       | L   | Ш  | Ш               |          |          |          | $\perp$  |          | 4        |          | 146      |          | Ш               |          |   |           |           | ]        |              |   |
|             | 47       |            | Ш                       |          |   |              | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              |                 |          |          |          | 97       | $ldsymbol{ld}}}}}}$ |  |                 |          |          |          | 丄        | _        | _        |          | 147      |          | Ш               |          |   |           |           | ļ        |              |   |
|             | 48       |            | Ш                       |          |   |              |  | Ш               |          |          |          | 98       | $\Box$  |  |                 |          |          |          |          |          | ╛        |          | 148      |          | Ш               |          |   |           |           |          |              |   |
|             | 49       |            |                         |          |   |              |  | $\Box$          |          | _]       |          | 99       |   |  |                 |          |          |          |          |          | ╛        |          | 149      |          | $\Box$          |          |   |           |           |          |              |   |
|             | 50       |            |                         |          |   |              |  |                 |          |          |          | 100      |   |  |                 | I        |          |          | ſ        | 1        | ╝        |          | 150      |          | ΙĪ              | Ī        |   |           |           |          |              |   |